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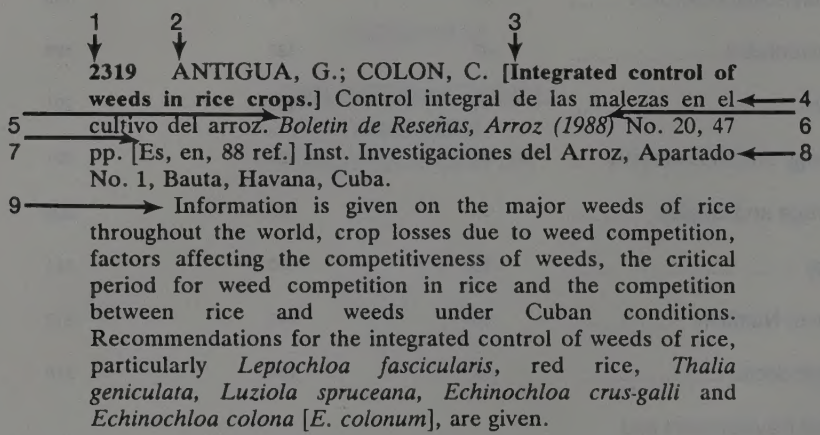
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2319 ANTIGUA, G.; COLON, C. [Integrated control of weeds in rice crops.] Control integral de las malezas en el cultivo del arroz. Boletin de Reseñas, Arroz (1988) No. 20, 47 pp. [Es, en, 88 ref.] Inst. Investigaciones del Arroz, Apartado No. 1, Bauta, Havana, Cuba.
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Information is given on the major weeds of rice throughout the world, crop losses due to weed competition, factors affecting the competitiveness of weeds, the critical period for weed competition in rice and the competition between rice and weeds under Cuban conditions. Recommendations for the integrated control of weeds of rice, particularly Leptochloa fascicularis, red rice, Thalia geniculata, Luziola spruceana, Echinochloa crus-galli and Echinochloa colona [E. colonum], are given.

For non-serial publications such as books, transliterated titles are given for languages in Cyrillic or Greek scripts.

Editorial additions within abstracts appear in square brackets e.g. for preferred Latin names of organisms.

Where an item is not abstracted from the original document but from a secondary source, this is indicated after the authors' affiliation.

The author and subject indexes for the four quarterly parts are cumulated to provide annual indexes. Terms used in the indexes are taken from the CAB Thesaurus, 1990 edition.

LANGUAGE SYMBOLS

The language symbols used are listed below. An initial capital letter denotes the main language of a paper, an initial small letter the language of the summary

Af	Afrikaans	Ee	Estonian	It	Italian	Pl	Polish
Al	Albanian	En	English	Ja	Japanese	Pt	Portuguese
Ar	Arabic	Eo	Esperanto	Ko	Korean	Ro	Romanian
Az	Azerbaijan(i)/ Azerbaidzhani/ Azebaidzhanian	Es	Spanish	La	Latin	Ru	Russian
		Fi	Finnish	Li	Lithuanian	Sh	Serbo-Croat
		Fr	French	Lv	Latvian	Sk	Slovak
Be	Belorussian	Gr	Greek	Ma	Macedonian	Sn	Slovenian
Bg	Bulgarian	He	Hebrew	My	Malay/Bahasa Malaysia	Sv	Swedish
Ch	Chinese	Hi	Hindi			Ta	Tajik/Tadzhik
Cs	Czech	Hu	Hungarian	Nl	Dutch, Flemish	Th	Thai
Da	Danish	In	Indonesian	No	Norwegian	Tr	Turkish
De	German	Is	Icelandic	Pe	Persian	Uk	Ukranian

ABBREVIATIONS

ADP	adenosine diphosphate
a.i.	active ingredient
alt.	altitude
AMP	adenosine monophosphate
Apr.	April
ATP	adenosine triphosphate
Aug.	August
cAMP	cyclic adenosine monophosphate
CEC	cation exchange capacity
CGR	crop growth rate
CP	crude protein
cv.	cultivar
Dec.	December
DM	dry matter
DNA	deoxyribonucleic acid
DW	dry weight
E.	East
e.g.	for example
ELISA	enzyme-linked immunosorbent assay
EM	electron microscope
ESP	exchangeable sodium percentage
Feb.	February
f.sp.	*forma specialis* (special form)
FW	fresh weight
FYM	farmyard manure
GC	gas chromatography
GLC	gas-liquid chromatography
HPLC	high performance liquid chromatography
i.e.	that is
Ig	immunoglobulin
IR	infrared
Jan.	January
LAI	leaf area index
M	molar
Mar.	March
MIM	multiple ion monitoring
mol.	molecular
MS	mass spectrometry
MW	molecular weight
N.	north
N	normal (concentration)
n	haploid chromosome number
NAD	nicotinamide adenine dinucleotide
NADH	nicotinamide adenine dinucleotide (reduced form)
NADP	nicotinamide adenine dinucleotide phosphate
NADPH	nicotinamide adenine dinucleotide phosphate (reduced form)
NAR	net assimilation rate
NE	north-east
NMR	nuclear magnetic resonance
Nov.	November
NW	north-west
Oct.	October
OM	organic matter
P	probability
PAGE	polyacrylamide gel electrophoresis
PAL	phenylalanine ammonia-lyase
PAR	photosynthetically active radiation
PEP	phosphoenolpyruvate
Pfr	phytochrome, far-red form
Pr	phytochrome, red form
pH	hydrogen ion concentration
post-em.	post emergence
p.p.m.	parts per million
pre-em.	pre-emergence
PSI, PSII	photosystem I, photosystem II
r	correlation coefficient
RC	radioconductivity
RGR	relative growth rate
RH	relative humidity
RNA	ribonucleic acid
r.p.m.	revolutions per minute
S.	south
SDS	sodium dodecyl sulphate
SE	south-east
SEM	scanning electron microscope
Sep.	September
SIM	selective ion monitoring
sp., spp.	species (s. and pl.)
subsp., subspp.	subspecies (s. and pl.)
SW	south-west
TLC	thin-layer chromatography
UV	ultraviolet
vs.	versus
v/v	volume/volume
v/w	volume/weight
W.	west
w.p.	wettable powder
w/v	weight/volume
w/w	weight/weight

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Many other serials were scanned during 1993 but no relevant articles were selected. A full list of all the serials scanned for items suitable for abstracting for the CAB ABSTRACTS database and the whole range of CABI's abstract journals is given in the *CAB International Serials Checklist, 1988 edition*. The publication includes ISSNs and publishers' addresses.

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Acta Agriculturae Universitatis Jiangxiensis
Acta Agriculturae Universitatis Pekinensis
Acta Agriculturae Universitatis Zhejiangensis
Acta Agriculturae Zhejiangensis
Acta Agronomica Hungarica
Acta Agronomica Sinica
Acta Arachnologica
Acta Botanica Austro Sinica
Acta Botanica Boreali-Occidentalia Sinica
Acta Botanica Indica
Acta Botanica Sinica
Acta Ecologica Sinica
Acta Entomologica Sinica
Acta Genetica Sinica
Acta Horticulturae
Acta Microbiologica Sinica
Acta Mycologica Sinica
Acta Paediatrica
Acta Pedologica Sinica
Acta Phytopathologica et Entomologica Hungarica
Acta Phytopathologica Sinica
Acta Phytophylactica Sinica
Acta Phytophysiologica Sinica
Acta Protozoologica
Acta Scientiarum Naturalium Universitatis Normalis Hunanensis
Acta Tropica
Acta Universitatis Agriculturalis Boreali-Occidentalis
Advances in Disease Vector Research
Advances in Plant Sciences
Aerobiologia
AFPC Policy Working Paper
African Development Review
Afrique Agriculture
Afro-Asian Journal of Nematology
Afro-Asian Nematology Network
AgBiotech News and Information
Agricoltura Mediterranea
Agricultura Técnica (Santiago)
Agricultural and Biological Chemistry
Agricultural and Forest Meteorology
Agricultural and Resource Economics Review
Agricultural Economics
Agricultural Engineering Journal
Agricultural Engineering Today
Agricultural Research Journal of Kerala
Agricultural Review for Europe
Agricultural Reviews (Karnal)
Agricultural Science Digest (Karnal)
Agricultural Situation in India
Agricultural Systems
Agricultural Water Management
Agriculture and Horticulture
Agriculture Series
Agriculture, Ecosystems & Environment
Agro Food Industry Hi-Tech
Agro-Environmental Protection
Agroforestry Systems
Agrokhimiya
Agronomia Colombiana
Agronomía Costarricense
Agronomie
Agronomie Tropicale
Agronomy Journal
Agrotecnia de Cuba
AIT Research Report
Alternative Appropriate Technologies in Agriculture
Alternatives
AMA, Agricultural Mechanization in Asia, Africa and Latin America
American Journal of Agricultural Economics
American Journal of Botany
American Journal of Clinical Nutrition
American Journal of Diseases of Children
Anais da Sociedade Entomologica do Brasil
Analele Institutului de Cercetări pentru Cereale şi Plante Tehnice, Fundulea
Analytical Biochemistry
Animal Feed Science and Technology
Animal Production
Annali della Facoltà di Medicina Veterinaria di Torino
Annals of Agricultural Research
Annals of Applied Biology
Annals of Bangladesh Agriculture
Annals of Biology (Ludhiana)
Annals of Botany
Annals of Plant Protection Sciences
Annals of the Phytopathological Society of Japan
Annotationes Zoologicae et Botanicae
Annual Report of the Society of Plant Protection of North Japan
Annual Report of the Tokyo Metropolitan Research Laboratory of Public Health
Annual Review of Plant Physiology and Plant Molecular Biology
Anvesak
Anzeiger fur Schadlingskunde, Pflanzenschutz, Umweltschutz
APK: Ekonomika, Upravlenie
Applied and Environmental Microbiology
Applied Engineering in Agriculture
Applied Entomology and Zoology
Archiv für Hydrobiologie
Archives Françaises de Pediatrie
Archives of Environmental Contamination and Toxicology
Archives of Insect Biochemistry and Physiology
Arid Land Geography
Arkansas Farm Research
Arroz
Arroz en las Américas
Artha Vijñāna
ASEAN Food Journal
Assiut Journal of Agricultural Sciences
Atmospheric Environment. Part A, General Topics
Australian Journal of Agricultural Research
Australian Journal of Plant Physiology
Bangkok Bank Monthly Review
Bangladesh Journal of Agricultural Economics
Bangladesh Journal of Agricultural Sciences
Bangladesh Journal of Agriculture
Bangladesh Journal of Animal Science
Bangladesh Journal of Zoology
Beiträge zur Entomologie
Beiträge zur Tropischen Landwirtschaft und Veterinärmedizin
Berichte über Landwirtschaft
Bhartiya Krishi Anusandhan Patrika
Bio/Technology
Biochemie und Physiologie der Pflanzen
Biochemistry
Biochemistry International
Biogeochemistry
Biological Agriculture & Horticulture
Biology and Fertility of Soils
Biomedica Biochimica Acta
Biomedical and Environmental Sciences
Biometrical Journal
Bioresource Technology
Bioscience, Biotechnology and Biochemistry
Biotechnology and Development Monitor
Biotechnology Letters
Boletim Técnico - Empresa Catarinense de Pesquisa Agropecuária
Boletín - Instituto Nacional de Ciencias Agrícolas
Boletín de Sanidad Vegetal, Plagas
Bolletino di Zoologia Agraria e di Bachicoltura
Botanical Bulletin of Academia Sinica
British Journal of Nutrition
Buffalo Journal
Buletinul Academiei de Ştiinţe a Republicii Moldova. Ştiinţe Biologice şi Chimice

Natural Toxins
Nematologia Mediterranea
Nematologica
New Agriculturist
New Phytologist
Newsletter - Food & Fertilizer Technology Center
NFDC Publication
Nippon Eiyo Shokuryo Gakkaishi = Journal of the Japanese Society of Nutrition and Food Science
Nippon Nogeikagaku Kaishi
Nippon Shokuhin Kogyo Gakkaishi = Journal of the Japanese Society for Food Science and Technology
Nippon Sochi Gakkaishi = Journal of Japanese Society of Grassland Science
Nogaku Kenkyu
Nordisk Jordbruksforskning
Noticias Agrícolas
Nucleic Acids Research
Nutrition Research
ODI/IIMI Irrigation Management Network Paper
Options (Serdang)
Options Méditerranéennes. Série A, Séminaires Méditerranéens
Orissa Journal of Agricultural Research
Oryza
Outlook on Agriculture
PAC Working Paper - Pakhribas Agricultural Centre
Pacific Economic Bulletin
Pakistan Development Review
Pakistan Journal of Agricultural Economics
Pakistan Journal of Botany
Pakistan Journal of Scientific and Industrial Research
Pakistan Journal of Soil Science
Pakistan Journal of Zoology
Palawija News
Paper - American Society of Agricultural Engineers
PCARRD Monitor
PCR Methods and Applications
PCT International Patent Application
Pedobiologia
Pedosphere
Pertanika
Pesquisa Agropecuária Brasileira
Pesticide Biochemistry and Physiology
Pesticide Research Journal
Pesticide Science
Philippine Entomologist
Philippine Journal of Crop Science
Philippine Journal of Science
Philippines Agriculturist
Photosynthesis Research
Physiologia Plantarum
Physiological and Molecular Plant Pathology
Physiological Entomology
Physiology & Behavior
Phytochemistry
Phyton
Phytoparasitica
Phytopathology
PKV Research Journal
Plant and Cell Physiology
Plant and Soil
Plant Breeding
Plant Cell
Plant Cell Reports
Plant Cell, Tissue and Organ Culture
Plant Disease
Plant Disease Research
Plant Foods for Human Nutrition
Plant Growth Regulator Society of America Quarterly
Plant Journal
Plant Molecular Biology
Plant Pathology
Plant Pest Forecasts
Plant Physiology
Plant Physiology & Biochemistry (New Delhi)
Plant Physiology Communications
Plant Protection
Plant Protection Bulletin (Faridabad)
Plant Protection Quarterly
Plant Science (Limerick)
Plant Systematics and Evolution
Plant, Cell and Environment
Planta
Plasticulture
Pochvovedenie
Pochvoznanie i Agrokhimiya
Policy Research Working Papers - International Economics Department, World Bank
Preventive Veterinary Medicine
Probe. Newsletter of the USDA Plant Genome Research Program
Proceedings of Faculty of Agriculture, Kyushu Tokai University
Proceedings of Pakistan Congress of Zoology
Proceedings of the Association for Plant Protection of Kyushu
Proceedings of the Indian Academy of Sciences, Animal Sciences
Proceedings of the Indian National Science Academy. Part B, Biological Sciences
Proceedings of the Japanese Association of Mycotoxicology
Proceedings of the Kansai Plant Protection Society
Proceedings of the Kanto-Tosan Plant Protection Society
Proceedings of the National Academy of Sciences of the United States of America
Proceedings of the National Science Council, Republic of China. Part B, Life Sciences
Process Biochemistry
Protección de Plantas
Protoplasma
PSP Pflanzenschutz Praxis
Pure and Applied Chemistry
Quarterly Bulletin of IAALD
Quarterly Newsletter - Asia and Pacific Plant Protection Commission
RAFI Communique
Report - Centre for Agrobiological Research
Research and Development Reporter
Research and Reports of the Rural Development Administration, Soil and Fertilizer
Research Bulletin of Obihiro University, I
Research Bulletin of the Faculty of Agriculture, Gifu University
Research Bulletin of the Hokkaido National Agricultural Experiment Station
Research Bulletin of the Plant Protection Service, Japan
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Research in Economic Anthropology
Research Journal of Food and Agriculture
Research Report - International Food Policy Research Institute
Research Reports of the Rural Development Administration, Biotechnology
Research Reports of the Rural Development Administration, Crop Protection
Research Reports of the Rural Development Administration, Farm Management, Agricultural Engineering, Sericulture, and Farm Products Utilization
Research Reports of the Rural Development Administration, Rice
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Research Reports of the Rural Development Administration, Soil & Fertilizer
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Resource and Crop Management Research Monograph
Resources, Conservation and Recycling
Résumé des Recherches - Station de Recherches de Saint-Jean-sur-Richelieu, Québec
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RNAM Newsletter
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Science and Culture
Science Bulletin of the Faculty of Agriculture, Kyushu University
Science Reports of Faculty of Agriculture, Kobe University
Scientia Agricultura Sinica
Scientific Reports of the Miyagi Agricultural College
Seed Science and Technology
Seed Science Research
Seed World (Des Plaines)
Sel'skokhozyaĭstvennaya Biologiya
Sementi Elette
Shaanxi Journal of Agricultural Sciences
Shell Agriculture
Shimane Daigaku Nogakuba Kenkyu Hokoku = Bulletin of the Faculty of Agriculture, Shimane University
Soil & Tillage Research
Soil Biology & Biochemistry
Soil Management Abstracts
Soil Science
Soil Science and Plant Nutrition
Soil Science Society of America Journal

Soils and Fertilizers (Beijing)
Southeast Asian Studies
Southern Journal of Agricultural Economics
Southwest China Journal of Agricultural Sciences
Soviet Agricultural Sciences
Soviet Meteorology and Hydrology
Soviet Plant Physiology
Special Bulletin of the Chiba Prefectural Agricultural Experiment Station
Starch/Stärke
Sulphur in Agriculture
Summa Phytopathologica
Technical Bulletin - Food and Fertilizer Technology Center
Technical News - Institute of Radiation Breeding
Technical Papers - OECD Development Centre
Tecnica Molitoria
Tehqique
Terra e Sole
Theoretical and Applied Genetics
Thesapiban
Tissue & Cell
Traktory i Sel'skokhozyaĭstvennye Mashiny
Transactions of the ASAE
Transactions of the Bose Research Institute
Transactions of the Chinese Society of Agricultural Engineering
Transactions of the Chinese Society of Agricultural Machinery
Transactions of the Japanese Society of Irrigation, Drainage and Reclamation Engineering
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Transgenic Research
Tropical Agriculture
Tropical Agriculture Research Series
Tropical Agriculturist
Tropical Ecology
Tropical Pest Management
Tropical Science
Tropicultura
Tsitologiya i Genetika
UCLA Symposia on Molecular and Cellular Biology
Ukraïnskiĭ Botanichniĭ Zhurnal
United States Patent
Verband Deutscher Landwirtschaftlicher Untersuchungs- und Forschungsanstalten Reihe Kongressberichte
Verhandlungen - Gesellschaft für Ökologie
Věstník Akademie Zemědělských věd ČSFR
Vestnik Sel'skokhozyaĭstvennoĭ Nauki (Moskva)
Virology (New York)
Water Research (Oxford)
Water Resources Bulletin
Water Resources Research
Water Science and Technology
Weed Abstracts
Weed Research (Oxford)
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Working Document - International Centre for Development Oriented Research in Agriculture
World Development (Oxford)
World Journal of Microbiology & Biotechnology
Zashchita Rasteniĭ (Moskva)
Zeitschrift für Angewandte Zoologie
Zeitschrift für Kulturtechnik und Landentwicklung
Zeitschrift für Pflanzenernährung und Bodenkunde
Zeitschrift für Pflanzenkrankheiten und Pflanzenschutz
Zentralblatt für Mikrobiologie
Zhejiang Agricultural Science (Zhejiang Nongye Kexue)
Zimbabwe Journal of Agricultural Research

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International Institute of Parasitology
Director, Dr R. Muller, located at Winches Farm, St Albans, Herts, AL4 0XU.

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